

강우진 (Ujin Jonathan Kang)

📍 Seoul, South Korea ✉ jonathankang04@gmail.com in ujin-jonathan-kang 🎮 j0ntendo

Education

Yonsei University

BS in Computer Science

May 2023 – May

2028(expected)

- **Coursework:** Bioinformatics, Data Structures & Algorithms, Discrete Mathematics, Logic Circuit Design, Computer System

Research Interests

- Natural language processing
- Large Language Models
- IoT & Robotics
- Neuroimaging

Experience

Dencomm(주식회사 덴컴)

AI Lab Team Intern

Gangnam, Seoul

Summer of 2024

- Researched and fine-tuned large language models (LLMs) for bilingual medical dialogue summarization.
- Used PyTorch Lightning, Ray Trainer, and DeepSpeed to optimize PEFT-LoRA fine-tuning efficiency.
- Developed a Streamlit app and a ReAct agent-based dental chatbot (DentaReACT) using Langchain and RAG.

Makerspace i7 (Yonsei University)

Part-Time Worker

Songdo, Incheon

Sept. 2023 – Dec. 2023

- Operated 3D printers, managing filament changes, cleaning, and troubleshooting.
- Proficient in handling laser cutters and UV printers.
- Front desk duties included handling calls, inquiries, and assisting students with 3D print pickups.

Leadership Experience

YCC (Yonsei Computer Club) Rookies

Social Committee Member(친목부원)

Jul. 2023 – Dec. 2023

- Organized orientation and social events to foster student connections.
- Formed inclusive student groups for the semester based on preferences.
- Led study groups, preparing materials and motivating peers.

School Simplified

Senior Tutor for Languages Team

2021 – 2022

- Conducted personalized one-on-one online tutoring sessions for Spanish, AP Spanish, and Algebra 1
- Mentored and coached newly hired tutors, providing guidance and support to enhance their tutoring skills and effectiveness.
- Developed interview questions and conducted interviews for tutor applicants.

Projects

LLM-Trainer

- Fine-tuned large language models (LLMs) on a bilingual Korean-English medical dialogue dataset for clinical note generation. Used PEFT with LoRa to optimize summarization accuracy and computational efficiency.

QA Dental Chatbot

- Developed a dental chatbot using ReAct agent and RAG, integrating tools like BM25 and MMR retrievers for QA from a dental forum. Designed for 24/7 patient support on websites.

Volunteer Activities

Bethlehem Church

2018 – 2019

Translator

- Translated Korean, English, and Spanish on mission trips in the Medical/Pharmacy Department.

Global Care

2020 – 2022

Volunteer

- Helped pack and hand out provision boxes (+300) and biosecurity toolkits (2000 masks & 12 gallons of alcohol) to areas affected by the ETA and IOTA hurricanes in Honduras.

TES (Trabajo Educativo Social) (Great Commission Academy)

2021 – 2022

Volunteer

- Funded money for classroom chair desks, medical kits, and school supplies for a school in the vicinity that was affected by the ETA and IOTA hurricanes of Honduras

Awards and Acknowledgements

Tutor of the Month

2022

- Recognized as "Tutor of the Month" for demonstrating exceptional commitment and reliability in delivering high-quality tutoring services for AP Spanish in School Simplified.

Technical Skills

Programming: C++, Python

Tools & Libraries: ChromaDB, Langchain, orjson

ML Frameworks: PyTorch, TensorFlow, Deepspeed

Maker Tools & Technologies: Operation and maintenance of 3D Printers and Laser Cutters

Languages

Korean: Native, First Language

English: Fluent (TOEIC 960/990)

Spanish: Native, First Language